

Appl. No. 09/457,847
Atty. Docket No. 7114
Amdt. Dated 8/29/2006
Reply to Office Action of 11/10/2005
Customer No. 27752

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REMARKS

Claims 14, 15, 33-42, 45, 46, 48-50, 56, 60-64, 65, and 66 are pending in the present application.

No new matter is believed to have been added.

Rejection Under 35 USC 103 Over Vogel in view of Jellinek

The Office Action rejects the claims under 35 USC 103 over Vogel (US 5,532,023) in view of Jellinek (US 4,631,226). The Office Action disagrees with Applicants position that the composition of example is likely to be H. Applicants have further researched and found the pH for Sandoperm ME, attached as Appendix A. The pH for Sandoperm ME is 4.0 ± 1 . As such, Applicants respectfully submit that one of ordinary skill would find such compositions acidic.

Rejection Under 35 USC 103 Over Jellinek in view of Vogel

The Office Action rejects the claims under 35 USC 103 over Jellinek in view of Vogel. Applicant traverses this rejection. Applicant asserts that the Office Action has not provided any motivation to combine these references. Rather, Applicant submits the references teach away from being combined. Although example 5, part G of Jellinek has a basic pH of 9.0, the composition of Vogel (i.e., example H on column 16) is likely one that is acidic. Applicant submits that there is no motivation to combine the composition of Jellinek, which teaches a composition of pH 9.0, and a composition of Vogel which is likely acidic (i.e., a pH less than 7).

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CONCLUSION

Early and favorable action in the case is respectfully requested.

Respectfully submitted,

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Appendix A



Technical Information**Sandoperm ME liq****Sandoperm* ME Liquid**

Aminofunctional polysiloxane for permanent finishing effects on all types of fibre

- imparts an extremely soft, pleasant, flowing handle to the goods
- is also particularly suitable for finishing articles of open end yarns by virtue of the high softness attainable
- improves sewability of the finished goods
- increases the elasticity and stretch recovery of knit goods.
- improves, as an addition to resin finishing liquors, the technological properties of the goods (crease behaviour, tear and abrasion resistance and wash and wear effects)
- produces wash and dry cleaning-resistant finishing effects
- is suitable for pad and exhaust application.

1 Properties

Appearance	aqueous, transparent microemulsion
Chemical character	aminommodified polysiloxane
Ionic character	cationic
Density at 20°C	ca. 1
pH of commercial product	4.0 ± 1
Dilutability	dilutable with cold water in any proportion
Storage stability	at least 9 months under normal conditions; temperatures below 0°C and over 40°C should be avoided. The product is sensitive to frost.
Compatibility with	
• nonionic products	good
• cationic products	good
Influence on dyed goods	depending on the dyeing slight deepening in shade is possible
Influence on white goods	a slight loss of whiteness may occur when applied with anionic fluorescent brighteners
Ecotoxicological data	see Safety Data Sheet.

2 Scope of application

Sandoperm ME Liquid is applicable by the padding and exhaust methods. Liquor stability compared to conventional polysiloxanes has been further improved.

Sandoperm ME Liquid should be applied in the weakly acid region. pH shifts into the alkaline region caused by alkali residues on the goods should be avoided through pH control and adjustment to the weakly acid region.

When applying silicone products care should be taken to ensure that the goods are adequately rinsed after pretreatment or dyeing in order to remove all chemical residues. It is essential to rinse out special polymer-based detergents well as they can cause precipitations and silicone spots on the goods.

3 Mode of action

Due to the chemical composition of **Sandoperm ME Liquid** and the extremely small particle size of the microemulsion and the resulting homogeneous penetration of the fibre bundle, treatments with **Sandoperm ME Liquid** lead to extremely soft finishing effects. A soft dry handle is obtained which cannot be achieved with the usual polysiloxanes. In combination with reactant crosslinking agents the good lubricating effect of the product improves the crease recovery, elasticity and sewability of the goods. Combination with **Sandoperm PU Liquid** together with a mechanical treatment such as buffing or emerizing produces extremely interesting fashionable finishing effects. Finishes with **Sandoperm ME Liquid** do not require special drying conditions. The effects become permanent after several days storage.

4 Sample recipes

4.1 Exhaust process

Cellulosic fibres

0.5 - 2 % **Sandoperm ME Liquid**
pH 4-5 with acetic acid

Wool and synthetic fibres

0.5 - 2 % **Sandoperm ME Liquid**
pH 6-7 with acetic acid or sodium bicarbonate

- add the diluted product at 40-50°C
- treat for 20-30 min at 40-50°C
- hydroextract (without rinsing)
- dry under the usual conditions.

4.2 Padding process

Guide recipe for all fibres

- 5 - 20 g/l Sandoperm ME Liquid
- 0.5 - 1 g/l Sandozin* NRW Liquid conc.
pH 4-5 with acetic acid
- add the diluted product to the liquor at ca. 25°C
- pad at 50-100% pickup depending on the type of fibre
- dry under the usual conditions.

Soft handle finish on Co and Co/CV woven fabrics

- 40 g/l Sandoperm PU Liquid
- 2 g/l Catalyst PU Liquid
- 20 g/l Sandoperm ME Liquid
- 20 g/l Ceranine® HDP Liquid
- pad at ca. 80% pickup
- dry at 120-130°C
- cure for 2 min at 150°C or
- shock cure for 15 s at 175°C (temperature on the goods)

Resin finishing of Co knit goods

- 30 g/l Arkofix® NDF Liquid conc.
- 8 g/l Catalyst NKS Liquid
- 20 g/l Sandoperm ME Liquid
- 30 g/l Sandolube* SVN Liquid
- pad at ca. 80% pickup
- shock cure for 25 s at 175°C (temperature on the goods)

Resin finishing of PES/Co shirting fabric

- 35 g/l Arkofix NDF Liquid conc.
- 9 g/l Catalyst NKS Liquid
- 15 g/l Sandoperm ME Liquid
- 20 g/l Ceraperm® SAP Liquid
- pad at ca. 80% pickup
- dry at 120-130°C
- cure for 4 min at 150°C or
- shock cure for 30 s at 175°C (temperature on the goods)

6 Stripping

As a rule the goods can simply be overdyed without stripping the finish. If the product is to be removed good stripping is achieved in the following manner:

On winch or jet

- | | | |
|-------------------------------|------|---|
| 10 | g/l | Stripper SI Liquid (obtainable from Clariant France) |
| 2 - 4 | g/l | caustic soda 50% |
| 0.2 - 0.5 | g/l | Antimussol® SF Liquid or |
| | | Antimussol HTS Liquid |
| | | liquor ratio 10:1-20:1 |
| - treat for 60 min at 80-95°C | | |
| - rinse hot to cold | | |
| - acidify with | | |
| 2 - 5 | ml/l | acetic acid 60% or |
| 0.5 - 1 | g/l | citric acid |

Acidification with non-volatile acids such as citric acid is advisable if the goods are to be finished with alkali-sensitive finishing liquors.

In a combination finish with crosslinking resins these must be removed by acid hydrolysis before overdyeing can be carried out. In such cases the above treatment is followed after rinsing by:

- | | | |
|-------------------------------|------|------------------------------|
| 4 - 10 | ml/l | hydrochloric acid conc. |
| 2 | g/l | Sandoclean® PC Liquid |
| | | liquor ratio 10:1-20:1 |
| - treat for 20 min at 60-70°C | | |
| - rinse hot to cold. | | |

Many of their dyestuffs, pigments and chemicals are patented by Clariant Ltd or its affiliates in numerous industrial countries.

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The signs ®, * and + appear only at the first mention of the product.

The information and recommendations presented here were compiled with the utmost care, but cannot be extended to cover every possible case. They are intended to serve as non-binding guidelines and must be adapted to the prevailing conditions.